

ELECTROMAGNETIC SUSPENSION SYSTEM

ABSTRACT OF THE DISCLOSURE

An electromagnetic suspension system comprises a universal joint mechanism for permitting radial movement of a cylinder relative to a center yoke while preventing axial movement of the cylinder relative to the center yoke. Since the cylinder is capable of radial movement relative to the center yoke, if a lateral force acts on the cylinder, the lateral force acting on a hydraulic damper does not have any significant effect on the center yoke 17, with respect to radial movement or rocking movement thereof. Therefore, excessive sliding friction does not occur in a center-yoke dry metal and a piston-rod dry metal, thereby ensuring smooth axial relative displacement between the center yoke and an outer yoke.